

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/S16, 603
Source: PCT
Date Processed by STIC: 12-17-04

ENTERED



PCT

RAW SEQUENCE LISTING DATE: 12/17/2004
 PATENT APPLICATION: US/10/516,603 TIME: 15:09:42

Input Set : A:\14875-137US1.txt
 Output Set: N:\CRF4\12172004\J516603.raw

```

3 <110> APPLICANT: Kodama, Tatsuhiko
4      Jishage, Kou-ichi
5      Kamada, Nobuo
6      Yamada, Yoshiki
8 <120> TITLE OF INVENTION: METHODS FOR PRODUCING ANTIBODIES
10 <130> FILE REFERENCE: 14875-137US1
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/516,603
C--> 12 <141> CURRENT FILING DATE: 2004-12-03
12 <150> PRIOR APPLICATION NUMBER: PCT/JP03/07071
13 <151> PRIOR FILING DATE: 2003-06-04
15 <150> PRIOR APPLICATION NUMBER: JP 2002-164834
16 <151> PRIOR FILING DATE: 2002-06-05
18 <150> PRIOR APPLICATION NUMBER: JP 2002-180351
19 <151> PRIOR FILING DATE: 2002-06-20
21 <160> NUMBER OF SEQ ID NOS: 4
23 <170> SOFTWARE: PatentIn Ver. 2.1
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 28
27 <212> TYPE: DNA
28 <213> ORGANISM: Artificial Sequence
30 <220> FEATURE:
31 <223> OTHER INFORMATION: Description of Artificial Sequence:an artificially
32     synthesized primer sequence
34 <400> SEQUENCE: 1
35 gaattccacc atggttaagcg ctattgtt                28
38 <210> SEQ ID NO: 2
39 <211> LENGTH: 26
40 <212> TYPE: DNA
41 <213> ORGANISM: Artificial Sequence
43 <220> FEATURE:
44 <223> OTHER INFORMATION: Description of Artificial Sequence:an artificially
45     synthesized primer sequence
47 <400> SEQUENCE: 2
48 gaattcttaa tattgtctat tacggt                26
51 <210> SEQ ID NO: 3
52 <211> LENGTH: 1539
53 <212> TYPE: DNA
54 <213> ORGANISM: Baculovirus
56 <220> FEATURE:
57 <221> NAME/KEY: CDS
58 <222> LOCATION: (1)..(1539)
60 <400> SEQUENCE: 3
61 atg gta agc gct att gtt tta tat gtg ctt ttg gcg gcg gcg gcg cat    48

```

RAW SEQUENCE LISTING

DATE: 12/17/2004

PATENT APPLICATION: US/10/516,603

TIME: 15:09:42

Input Set : A:\14875-137US1.txt

Output Set: N:\CRF4\12172004\J516603.raw

```

62 Met Val Ser Ala Ile Val Leu Tyr Val Leu Leu Ala Ala Ala Ala His
63   1           5           10           15
65 tct gcc ttt gcg gcg gag cac tgc aac gcg caa atg aag acg ggt ccg   96
66 Ser Ala Phe Ala Ala Glu His Cys Asn Ala Gln Met Lys Thr Gly Pro
67           20           25           30
69 tac aag att aaa aac ttg gac att acc ccg ccc aag gaa acg ctg caa   144
70 Tyr Lys Ile Lys Asn Leu Asp Ile Thr Pro Pro Lys Glu Thr Leu Gln
71           35           40           45
73 aag gac gtg gaa atc acc atc gtg gag acg gac tac aac gaa aac gtg   192
74 Lys Asp Val Glu Ile Thr Ile Val Glu Thr Asp Tyr Asn Glu Asn Val
75           50           55           60
77 att atc ggc tac aag ggg tac tac cag gcg tat gcg tac aac ggc ggc   240
78 Ile Ile Gly Tyr Lys Gly Tyr Tyr Gln Ala Tyr Ala Tyr Asn Gly Gly
79   65           70           75           80
81 tcg ctg gat ccc aac aca .cgc gtc gaa gaa acc atg aaa acg ctg aat   288
82 Ser Leu Asp Pro Asn Thr Arg Val Glu Glu Thr Met Lys Thr Leu Asn
83           85           90           95
85 gtg ggc aaa gag gat ttg ctt atg tgg agc atc agg cag cag tgc gag   336
86 Val Gly Lys Glu Asp Leu Leu Met Trp Ser Ile Arg Gln Gln Cys Glu
87           100          105          110
89 gtg ggc gaa gag ctg atc gac cgt tgg ggc agt gac agc gac gac tgt   384
90 Val Gly Glu Glu Leu Ile Asp Arg Trp Gly Ser Asp Ser Asp Asp Cys
91           115          120          125
93 ttt cgc gac aac gag ggc cgc ggc cag tgg gtc aaa ggc aaa gag ttg   432
94 Phe Arg Asp Asn Glu Gly Arg Gly Gln Trp Val Lys Gly Lys Glu Leu
95           130          135          140
97 gtg aag cgg cag aat aac aat cac ttt gcg cac cac acg tgc aac aaa   480
98 Val Lys Arg Gln Asn Asn Asn His Phe Ala His His Thr Cys Asn Lys
99 145           150           155           160
101 tcg tgg cga tgc ggc att tcc act tcg aaa atg tac agc agg ctc gag   528
102 Ser Trp Arg Cys Gly Ile Ser Thr Ser Lys Met Tyr Ser Arg Leu Glu
103           165          170          175
105 tgc cag gac gac acg gac gag tgc cag gta tac att ttg gac gct gag   576
106 Cys Gln Asp Asp Thr Asp Glu Cys Gln Val Tyr Ile Leu Asp Ala Glu
107           180          185          190
109 ggc aac ccc atc aac gtg acc gtg gac act gtg ctt cat cga gac ggc   624
110 Gly Asn Pro Ile Asn Val Thr Val Asp Thr Val Leu His Arg Asp Gly
111           195          200          205
113 gtg agt atg att ctc aaa caa aag tct acg ttc acc acg cgc caa ata   672
114 Val Ser Met Ile Leu Lys Gln Lys Ser Thr Phe Thr Thr Arg Gln Ile
115           210          215          220
117 aaa gct gcg tgt ctg ctc att aaa gat gac aaa aat aac ccc gag tcg   720
118 Lys Ala Ala Cys Leu Leu Ile Lys Asp Asp Lys Asn Asn Pro Glu Ser
119 225           230           235           240
121 gtg aca cgc gaa cac tgt ttg att gac aat gat ata tat gat ctt tct   768
122 Val Thr Arg Glu His Cys Leu Ile Asp Asn Asp Ile Tyr Asp Leu Ser
123           245          250          255
125 aaa aac acg tgg aac tgc aag ttt aac aga tgc att aaa cgc aaa gtc   816
126 Lys Asn Thr Trp Asn Cys Lys Phe Asn Arg Cys Ile Lys Arg Lys Val

```

RAW SEQUENCE LISTING

DATE: 12/17/2004

PATENT APPLICATION: US/10/516,603

TIME: 15:09:42

Input Set : A:\14875-137US1.txt

Output Set: N:\CRF4\12172004\J516603.raw

```

127          260          265          270
129 gag cac cga gtc aag aag cgg ccg ccc act tgg cgc cac aac gtt aga 864
130 Glu His Arg Val Lys Lys Arg Pro Pro Thr Trp Arg His Asn Val Arg
131          275          280          285
133 gcc aag tac aca gag gga gac act gcc acc aaa ggc gac ctg atg cat 912
134 Ala Lys Tyr Thr Glu Gly Asp Thr Ala Thr Lys Gly Asp Leu Met His
135          290          295          300
137 att caa gag gag ctg atg tac gaa aac gat ttg ctg aaa atg aac att 960
138 Ile Gln Glu Glu Leu Met Tyr Glu Asn Asp Leu Leu Lys Met Asn Ile
139 305          310          315          320
141 gag ctg atg cat gcg cac atc aac aag cta aac aat atg ctg cac gac 1008
142 Glu Leu Met His Ala His Ile Asn Lys Leu Asn Asn Met Leu His Asp
143          325          330          335
145 ctg ata gtc tcc gtg gcc aag gtg gac gag cgt ttg att ggc aat ctc 1056
146 Leu Ile Val Ser Val Ala Lys Val Asp Glu Arg Leu Ile Gly Asn Leu
147          340          345          350
149 atg aac aac tct gtt tct tca aca ttt ttg tcg gac gac acg ttt ttg 1104
150 Met Asn Asn Ser Val Ser Ser Thr Phe Leu Ser Asp Asp Thr Phe Leu
151          355          360          365
153 ctg atg ccg tgc acc aat ccg ccg gca cac acc agt aat tgc tac aac 1152
154 Leu Met Pro Cys Thr Asn Pro Pro Ala His Thr Ser Asn Cys Tyr Asn
155          370          375          380
157 aac agc atc tac aaa gaa ggg cgt tgg gtg gcc aac acg gac tcg tcg 1200
158 Asn Ser Ile Tyr Lys Glu Gly Arg Trp Val Ala Asn Thr Asp Ser Ser
159 385          390          395          400
161 caa tgc ata gat ttt agc aac tac aag gaa cta gca att gac gac gac 1248
162 Gln Cys Ile Asp Phe Ser Asn Tyr Lys Glu Leu Ala Ile Asp Asp Asp
163          405          410          415
165 gtc gag ttt tgg atc ccg acc atc ggc aac acg acc tat cac gac agt 1296
166 Val Glu Phe Trp Ile Pro Thr Ile Gly Asn Thr Thr Tyr His Asp Ser
167          420          425          430
169 tgg aaa gat gcc agc ggc tgg tcg ttt att gcc caa caa aaa agc aac 1344
170 Trp Lys Asp Ala Ser Gly Trp Ser Phe Ile Ala Gln Gln Lys Ser Asn
171          435          440          445
173 ctc ata acc acc atg gag aac acc aag ttt ggc ggc gtc ggc acc agt 1392
174 Leu Ile Thr Thr Met Glu Asn Thr Lys Phe Gly Gly Val Gly Thr Ser
175          450          455          460
177 ctg agc gac atc act tcc atg gct gaa ggc gaa ttg gcc gct aaa ttg 1440
178 Leu Ser Asp Ile Thr Ser Met Ala Glu Gly Glu Leu Ala Ala Lys Leu
179 465          470          475          480
181 act tcg ttc atg ttt ggt cat gta gtt aac ttt gta att ata tta att 1488
182 Thr Ser Phe Met Phe Gly His Val Val Asn Phe Val Ile Ile Leu Ile
183          485          490          495
185 gtg att tta ttt ttg tac tgt atg att aga aac cgt aat aga caa tat 1536
186 Val Ile Leu Phe Leu Tyr Cys Met Ile Arg Asn Arg Asn Arg Gln Tyr
187          500          505          510
189 taa 1539
193 <210> SEQ ID NO: 4
194 <211> LENGTH: 512

```

RAW SEQUENCE LISTING

DATE: 12/17/2004

PATENT APPLICATION: US/10/516,603

TIME: 15:09:42

Input Set : A:\14875-137US1.txt

Output Set: N:\CRF4\12172004\J516603.raw

```

195 <212> TYPE: PRT
196 <213> ORGANISM: Baculovirus
198 <400> SEQUENCE: 4
199 Met Val Ser Ala Ile Val Leu Tyr Val Leu Leu Ala Ala Ala Ala His
200   1           5           10           15
201 Ser Ala Phe Ala Ala Glu His Cys Asn Ala Gln Met Lys Thr Gly Pro
202           20           25           30
203 Tyr Lys Ile Lys Asn Leu Asp Ile Thr Pro Pro Lys Glu Thr Leu Gln
204           35           40           45
205 Lys Asp Val Glu Ile Thr Ile Val Glu Thr Asp Tyr Asn Glu Asn Val
206           50           55           60
207 Ile Ile Gly Tyr Lys Gly Tyr Tyr Gln Ala Tyr Ala Tyr Asn Gly Gly
208   65           70           75           80
209 Ser Leu Asp Pro Asn Thr Arg Val Glu Glu Thr Met Lys Thr Leu Asn
210           85           90           95
211 Val Gly Lys Glu Asp Leu Leu Met Trp Ser Ile Arg Gln Gln Cys Glu
212           100          105          110
213 Val Gly Glu Glu Leu Ile Asp Arg Trp Gly Ser Asp Ser Asp Asp Cys
214           115          120          125
215 Phe Arg Asp Asn Glu Gly Arg Gly Gln Trp Val Lys Gly Lys Glu Leu
216           130          135          140
217 Val Lys Arg Gln Asn Asn Asn His Phe Ala His His Thr Cys Asn Lys
218   145          150          155          160
219 Ser Trp Arg Cys Gly Ile Ser Thr Ser Lys Met Tyr Ser Arg Leu Glu
220           165          170          175
221 Cys Gln Asp Asp Thr Asp Glu Cys Gln Val Tyr Ile Leu Asp Ala Glu
222           180          185          190
223 Gly Asn Pro Ile Asn Val Thr Val Asp Thr Val Leu His Arg Asp Gly
224           195          200          205
225 Val Ser Met Ile Leu Lys Gln Lys Ser Thr Phe Thr Thr Arg Gln Ile
226           210          215          220
227 Lys Ala Ala Cys Leu Leu Ile Lys Asp Asp Lys Asn Asn Pro Glu Ser
228   225          230          235          240
229 Val Thr Arg Glu His Cys Leu Ile Asp Asn Asp Ile Tyr Asp Leu Ser
230           245          250          255
231 Lys Asn Thr Trp Asn Cys Lys Phe Asn Arg Cys Ile Lys Arg Lys Val
232           260          265          270
233 Glu His Arg Val Lys Lys Arg Pro Pro Thr Trp Arg His Asn Val Arg
234           275          280          285
235 Ala Lys Tyr Thr Glu Gly Asp Thr Ala Thr Lys Gly Asp Leu Met His
236           290          295          300
237 Ile Gln Glu Glu Leu Met Tyr Glu Asn Asp Leu Leu Lys Met Asn Ile
238   305          310          315          320
239 Glu Leu Met His Ala His Ile Asn Lys Leu Asn Asn Met Leu His Asp
240           325          330          335
241 Leu Ile Val Ser Val Ala Lys Val Asp Glu Arg Leu Ile Gly Asn Leu
242           340          345          350
243 Met Asn Asn Ser Val Ser Ser Thr Phe Leu Ser Asp Asp Thr Phe Leu
244           355          360          365

```

RAW SEQUENCE LISTING

DATE: 12/17/2004

PATENT APPLICATION: US/10/516,603

TIME: 15:09:42

Input Set : A:\14875-137US1.txt

Output Set: N:\CRF4\12172004\J516603.raw

```

245 Leu Met Pro Cys Thr Asn Pro Pro Ala His Thr Ser Asn Cys Tyr Asn
246      370      375      380
247 Asn Ser Ile Tyr Lys Glu Gly Arg Trp Val Ala Asn Thr Asp Ser Ser
248 385      390      395      400
249 Gln Cys Ile Asp Phe Ser Asn Tyr Lys Glu Leu Ala Ile Asp Asp Asp
250      405      410      415
251 Val Glu Phe Trp Ile Pro Thr Ile Gly Asn Thr Thr Tyr His Asp Ser
252      420      425      430
253 Trp Lys Asp Ala Ser Gly Trp Ser Phe Ile Ala Gln Gln Lys Ser Asn
254      435      440      445
255 Leu Ile Thr Thr Met Glu Asn Thr Lys Phe Gly Gly Val Gly Thr Ser
256      450      455      460
257 Leu Ser Asp Ile Thr Ser Met Ala Glu Gly Glu Leu Ala Ala Lys Leu
258 465      470      475      480
259 Thr Ser Phe Met Phe Gly His Val Val Asn Phe Val Ile Ile Leu Ile
260      485      490      495
261 Val Ile Leu Phe Leu Tyr Cys Met Ile Arg Asn Arg Asn Arg Gln Tyr
262      500      505      510

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/516,603

DATE: 12/17/2004

TIME: 15:09:43

Input Set : A:\14875-137US1.txt

Output Set: N:\CRF4\12172004\J516603.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date